

## Claims

1. Transceiver that adapts itself to operate as an RF tag reader or as a bluetooth transceiver by changing its reception and transmission capabilities.

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2. The transceiver of claim 1, wherein said bluetooth transceiver is useable as a transceiver for a 2.4 GHz ISM band RF tag reader system.

10 3. The transceiver of claim 2, wherein a single antenna is useable for said transceiver as said RF tag reader or as said bluetooth transceiver.

4. The transceiver of claim 1 in a mobile terminal.

15 5. Radio device having a radio receiver and a radio transmitter characterized by operability of said device in two modes, a bluetooth mode and an RF tag reader mode.

6. The radio device of claim 5, further characterized by said operability of said radio device in either mode using said radio receiver and said radio transmitter.

20 7. The radio device of claim 5, further characterized by said radio device in an incorporating device (90) having additional device functionality (92).

8. The radio device of claim 7, characterized by said incorporating device comprising a mobile telephone.

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9. The radio device of claim 5, further characterized by said radio device installed in a mobile telephone (78).

30 10. Radio device having a radio receiver, a radio transmitter, and a signal processor (62), wherein the radio receiver is responsive to an incoming analog radio signal (72) for providing a down converted and modulated signal to said signal processor, wherein the radio transmitter is responsive to an output signal from said signal processor for transmission as an outgoing analog radio signal (70), characterized by control logic (66) for controlling said radio device in two modes, a first mode for operating as a bluetooth device and a second mode for 35 operating as an RF tag reader.